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# Catalogue of Indian Insects

## PART 3—Bombyliidae

FIELD MUSEUM  
OF  
NATURAL HISTORY

ADG 18, 1969  
BY

R. SENIOR-WHITE,  
F.E.S.,

(*Malariaologist, the Kepitigalla Rubber Estates Ltd., Ceylon.*)



*Issued under the authority of the Government of India.*

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# Catalogue of Indian Insects.

## Part 3.—BOMBYLIIDÆ.

### BOMBYLIIDÆ.

General account: Howlett, Ind. Ins. L., 597-600, figs.; Will., Dipt. N. Amer., 210-213, figs.; Brun., F. I. Dipt. Brachy. I, 173-174 [characterized]; Verrall, Br. Flies, V, 474-478 [general account and systematic order of genera]; Brun., R. I. M., II, 437-492 [revised cat. of Oriental spp.]; Villen., Ann. S. Ent. Fr. 1905, 304-306 [Meigen's types in Paris Mus.].

### BOMBYLIINÆ.

Verrall, Br. Flies, V, 483; Brun., F. I. Dipt. Brachy. I, 259.

#### 1. Empidideicus, Becker.

*Empidideicus*, Beck., Zeit. f. Hym. u. Dipt., VII, 97, fig. (1907), [Genotype, *E. carthaginensis*, Beck.]; Verr., Br. Flies, V, 484, fig. 272; Brun., F. I. Dipt. Brachy. I, 260.

*indicus*, Brunetti.

*Empidideicus indicus*, Brun., R. I. M., 1<sup>1</sup> 2 Simla.  
XIII, 77, fig. 1 (1917)<sup>1</sup>; *id.*, F. I.  
Dipt. Brachy. I, 260<sup>2</sup>.

#### 2. Geron, Meigen.

*Geron*, Mg., Syst. Besch., II, 223, (1829)  
[Genotype, *Bombylius hybridus*, Mg.];  
Sch., F. Aust., I, 68; Coq., Tr. Arver.  
Ent. Soc., XXI; Mik, Wien. Ent.  
Zeit., XIV, 106 [parasitic on Pyralid  
larva]; Ald., Cat. N. Amer. Dipt.,

245; Wulp, Cat. Dipt. S. Asia, 75;  
 Kert., Cat. Dipt., V, 98; Brun.,  
 R. I. M., II, 459; *id.*, F. I. Dipt.  
 Brachy. I, 279.

**albescens**, Brunetti.

*Geron albescens* Brun., R. I. M., III, 229 <sup>1, 2</sup> Orissa.  
 (1909)<sup>1</sup>; *id.* F. I. Dipt. Brachy. I, <sup>2</sup> Satara.  
 280, figs. 17, 18<sup>2</sup>. Abbottabad.

**argentifrons**, Brunetti.

*Geron argentifrons*, Brun., R. I. M., II, <sup>1, 2</sup> Lahore.  
 459 (1909)<sup>1</sup>; *id.* F. I. Dipt. Brachy. <sup>1, 2</sup> Bombay.  
 I, 279<sup>2</sup>; Howl., Ind. Ins. L., 598 <sup>1, 2</sup> Pusa.  
 [parasite of *Laspeyresia*]. <sup>2</sup> Almora.  
<sup>2</sup> Ceylon.

**3. Usia, Latreille.**

*Usia*, Latr., H. N. Crust. Ins., III, 430 (1802)  
 [Genotype, *Volucella florea*, Fb.];  
*id.*, loc. cit., XIV, 300; Kert., Cat.  
 Dipt., V, 100; Brun., F. I. Dipt.  
 Brachy. I, 281.

*Volucella*, Fb., (nec Geoff.), Ent. Syst., IV,  
 412, (1794); *id.*, Syst. Antl., 114;  
 Mg., Klass., I, 194.

**marginata**, Brunetti.

*Usia marginata*, Brun., R. I. M., III, 228 <sup>1, 2</sup> Simla.  
 (1909)<sup>1</sup>; *id.*, F. I. Dipt. Brachy. I,  
 283<sup>2</sup>.

**sedophila**, Brunetti.

*Usia sedophila*, Brun., R. I. M., III, 228 <sup>1, 2</sup> Simla.  
 (1909)<sup>1</sup>; *id.*, F. I. Dipt. Brachy. I, <sup>2</sup> Phagu.  
 282, fig. 19.<sup>2</sup>

**4. Phthiria, Meigen.**

*Phthiria*, Mg., Illig. Mag., II, 268 (1803)  
 [Genotype, *Bombylius pulicarius*  
 Mikan]; Sch. F. Aust. I, 66; Coq.

- Trans. Amer. Ent. Soc., XXI, 66 ;  
 Will., Biologia, Dipt. I, 288 ; Ald.,  
 Cat. N. Amer. Dipt., 239 ; Wulp,  
 Cat. Dipt. S. Asia, 75 ; Kert., Cat.  
 Dipt., V, 112 ; Verr., Br. Flies, V,  
 487 ; Brun., R. I. M., II, 459 ; *id.*,  
 F. I. Dipt. Brachy. I, 284.  
*Cyclorrhynchus*, Mq., H. N. Dipt., I, 392 (1834) ;  
*id.*, Dipt. Exot., II, (1) 114.  
*Dasypalpus*, Mq., Dipt. Exot., II, (1) 112  
 (1840).  
*Megapalpus*, Mq., H. N. Dipt., I, 394  
 (1834).  
*Phtyria*, Rond., Arch. Zool. Modena, III, 56  
 (1863).  
*Poocilognathus*, Jaenn., Abh. Senck. Nat.  
 Ges., VI, 350 (1863) ; *id.*, N. Exot.  
 Dipt., 43.

**gracilis**, Walker.

- Phthiria gracilis*, Wlk., Dipt. Saund., 2, 3, 4 E. India.  
 184 (1852)<sup>1</sup> ; Wulp, Cat. Dipt. S. Asia, 5 Simla.  
 75<sup>2</sup> ; Kert., Cat. Dipt., V, 113<sup>3</sup> ; Brun.,  
 R. I. M., II, 459<sup>4</sup> ; *id.*, F. I. Dipt.  
 Brachy. I, 285, fig. 20<sup>5</sup>.

**5. Systoechus, Loew.**

- Systoechus*, Lw., Neue Beitr., III, 34 (1855)  
 [Genotype, *Bombylius sulphureus*,  
 Mik.] ; Kert., Cat. Dipt., V, 120 ;  
 Wulp, Cat. Dipt. S. Asia, 74 ; O. S.,  
 W. Dipt., 250 ; Ald., Cat. N. Amer.  
 Dipt., 237 ; Brun., R. I. M., II, 458 ;  
*id.*, F. I. Dipt. Brachy. I, 275, fig. 16.

**eupogonatus**, Bigot.

- Systoechus eupogonatus*, Big., Ann. S. 2, 3, 4, 5 Hindostan.  
 Ent. Fr., (7) II, 365 (1892) ; Wulp, 3 Ceylon.  
 Cat. Dipt. S. Asia, 74<sup>2</sup> ; Kert., Cat.  
 Dipt., V, 121<sup>3</sup> ; Brun., R. I. M., II,  
 458<sup>4</sup> ; *id.*, F. I. Dipt. Brachy. I, 278<sup>5</sup>.

**flavospinosus**, Brunetti.

*Systoechus flavospinosus*, Brun., F. I. <sup>1</sup>S. Shan States.  
Dipt. Brachy. I, 277 (1920)<sup>1</sup>.

**nivalis**, Brunetti.

*Systoechus nivalis*, Brun., R. I. M., VII, <sup>1, 2</sup>Kumaon.  
472 (1912)<sup>1</sup>; *id.*, F. I. Dipt. Brachy.  
I, 277<sup>2</sup>.

**socius**, Walker.

<i>Bombylius socius</i> , Wlk., Dipt. Saund., I,	<sup>2, 3</sup> E. India.
201 (1852) <sup>1</sup> ; Wulp, Cat. Dipt. S. Asia,	<sup>4</sup> Masuri.
74 <sup>2</sup> ; Kert., Cat. Dipt., V, 143. <sup>3</sup>	<sup>5, 6</sup> Simla District.
<i>Systoechus socius</i> , Brun., R. I. M., II,	<sup>6</sup> Kashmir.
458 <sup>4</sup> ; <i>id.</i> , loc. cit., III, 226 <sup>5</sup> ; <i>id.</i> , F. I.	Abbottabad.
Dipt. Brachy. I, 276 <sup>6</sup> .	<sup>6</sup> Dehra Dun.
	<sup>6</sup> Kumaon.
	<sup>6</sup> Sikkim.
	<sup>6</sup> Kangra Valley.
	Mohanpur (Bengal).
	Nilgiris.
	<sup>6</sup> Coimbatore.
	<sup>6</sup> Bellary District,

**6. Anastoechus, Osten-Sacken.**

*Anastoechus*, O. S., W. Dipt., 251 (1877)  
[Genotype, *Bombylius nitidulus* F.,  
as *barbatus*, O-S.]; Ald., Cat. N. Amer.  
Dipt., 237; Kert., Cat. Dipt., V, 124;  
Wulp, Cat. Dipt. S. Asia, 74; Brun.,  
R. I. M., II, 458; *id.*, F. I. Dipt.  
Brachy. I, 278.

**longirostris**, van der Wulp.

*Anastoechus longirostris*, Wulp, Leyd. <sup>2, 3, 4, 5</sup>Himalaya.  
Mus. Notes, VII, 85 (1885)<sup>1</sup>; *id.*, Cat.  
Dipt. S. Asia, 74<sup>2</sup>; Kert., Cat. Dipt.,  
V, 124<sup>4</sup>; Brun., R. I. M., II, 458<sup>4</sup>;  
*id.*, F. I. Dipt. Brachy. I, 278<sup>5</sup>.

7. *Bombylius*, Linnaeus.*Bombylius*, L., Syst. Nat., edn. X, 606 (1758)

[Genotype, *B. major*, L.]; *id.*, F. Suec., 1918; Latr., H. N. Crust. Ins. III, 429; *id.*, loc. cit., XIV, 298; Fb., Syst. Antl., 128; Mg., Syst. Besch., II, 141; Mq. H. N. Dipt. I, 377; Sch., F. Aust., I, 58; O-S., W. Dipt., 247; Ald., Cat. N. Amer. Dipt., 235; Wulp, Cat. Dipt. S. Asia, 73; Kert., Cat. Dipt., V, 125; Verr., Br. Flies, V, 491; Brun., R. I. M., II, 456; *id.*, F. I. Dipt. Brachy. I, 261.

*Choristus*, Wlk., Dipt. Saund., I, 196, (1852).*Parisus*, Wlk., Dipt. Saund., I, 197, (1852).*albosparsus*, Bigot.

*Bombylius albosparsus*, Big., Ann. S. <sup>2, 3, 4, 5</sup> Pondicherry.  
Ent. Fr., (7) II, 362 (1892)<sup>1</sup>; Wulp,  
Cat. Dipt. S. Asia, 74<sup>2</sup>; Kert., Cat.  
Dipt., V, 125<sup>3</sup>; Brun., R. I. M., II, 457<sup>4</sup>;  
*id.*, F. I. Dipt. Brachy. I, 270<sup>5</sup>.

*brunettii*, Senior-White.*Bombylius brunettii*, S.-W., Spol. Zeyl., XII, 203 (1922)<sup>1</sup>.<sup>1</sup> Matale.<sup>1</sup> Opalgalla.<sup>1</sup> Habarana.<sup>1</sup> Kanthalai.<sup>1</sup> Trincomali.

(All Ceylon.)

*comastes*, Brunetti.*Bombylius comastes*, Brun., R. I. M., III, 225 (1909)<sup>1</sup>; *id.*, F. I. Dipt. Brachy. I., 268<sup>2</sup>.<sup>1</sup> Trivandrum.<sup>2</sup> Bombay Presidency.

Tanjore.

Samalkota.

*erectus*, Brunetti.*Bombylius erectus*, Brun., R. I. M., II, 457, 480, t. 12, f. 27 (1909)<sup>1</sup>; *id.*, F. I. Dipt. Brachy. I, 267<sup>2</sup>.<sup>1, 2</sup> Bangalore.

**fulvipes**, Bigot.

*Bombylius fulvipes*, Big., Ann. S. Ent. 2, 3, 4 Pondicherry.  
 Fr., (7) II, 362 (1892); Wulp, Cat. 4, 5 Allahabad.  
 Dipt. S. Asia, 74<sup>2</sup>; Kert., Cat. Dipt., 5 Belgaum.  
 V, 132<sup>3</sup>; Brun., R. I. M., II, 457, 479<sup>4</sup> 5 Lahore.  
 [redescr.]; *id.*, F. I. Dipt. Brachy. I, 5 N. Kanara.  
 271<sup>5</sup>.

**maculatus**, Fabricius.

*Bombylius maculatus*, Fb., Syst. Ent., 2, 4 Tranquebar.  
 803, 6 (1775); Wd., Auss. Zweifl. Ins., 5 Orissa.  
 I, 342, 19; Wulp, Cat. Dipt. S. Asia, 5 Bellary.  
 73<sup>2</sup>; Kert., Cat. Dipt. V, 134<sup>3</sup>; Brun., 5 Coimbatore.  
 R. I. M., II, 456; *id.*, F. I. Dipt. Trichinopoly District.  
 Brachy. I, 267<sup>5</sup>. 3 S. Asia.

**major**, Linnaeus.

*Bombylius major*, L., Syst. Nat. edn. X, 2, 3, 4, 5 Simla District  
 606 (1758)<sup>1</sup>; *id.*, F. Suec., 1918; *id.*, Murree Hills.  
 Syst. Nat. edn. XII, 11, 1009; Fb., 2 N. America.  
 Spec. Ins., II, 472; *id.*, Ent. Syst., 2 Europe.  
 IV, 407; *id.*, Syst. Antl., 128; Gmel., 2 N. Africa.  
 Syst. Nat., V, 2902; Mg., Syst. Besch., 2 Japan.  
 II, 144 [bibliog.]; Mq., H. N. Dipt., I,  
 377; Zett., Dipt. Scand., I, 188; Sch., F. Austr., I, 60; Kirby, F. Bor.-  
 Amer., Ins., 312; *id.*, Can. Ent., XIII, 166; Lw., Neue Beitr., III, 14  
 [notes]; O.-S., W. Dipt., 248; Coq., Tr. Amer. Ent. Soc., XXI, 110; Ald.,  
 Cat. N. Amer. Dipt., 236; Verr., Br. Flies, V, 497, fig. 290; Kert., Cat. Dipt., V, 134<sup>2</sup>; Brun., R. I. M., I, 168<sup>3</sup>; *id.*, loc. cit., II, 457<sup>4</sup>; *id.*, F. I. Dipt. Brachy. I, 265<sup>5</sup>.

*Bombylius albipectus*, Mq., Dipt. Exot., supp. V, 82, t. 4, f. 10 (?1846).

*Bombylius fratellus*, Wd., Auss. Zweifl. Ins., I, 583 (1828).

*Bombylius sinuatus*, Mg., Klass., 179 (?1800); Mik, Monog. Bombyl. Bohem, 35, t. 2, f. 4.

*Bombylius variegatus*, de Geer, Mem.  
H. N. Ins., VI, 107, t. 14, f. 10 (1782).  
*Bombylius vicinus*, Mq., Dipt. Exot., II,  
i, 98 (1840).

**orientalis**, Macquart.

*Bombylius orientalis*, Mq., Dipt. Exot., 3, 7, 4, 5 Bengal.  
II, i, 90, t. 6, f. 2 (1840)<sup>1</sup>; Wulp, Cat. 4, 5 Bangalore.  
Dipt. S. Asia 74<sup>2</sup>; Kert., Cat. Dipt., 5 Coorg.  
V 139<sup>3</sup>; Brun., R. I. M., II, 456<sup>4</sup>; id., 5 Cawnpore.  
F. I. Dipt. Brachy. I, 263<sup>5</sup>, fig. 14;  
Howl., Ind. Ins. L., t. 63, f. 1. 5 Karikkupam.  
*Bombylius tricolor*, Guer., Icon. Regne 5 Dehra Dun.  
Anim., III, 538, t. 95 (1828-1838); Palamau.  
Wulp, Cat. Dipt. S. Asia, 74<sup>6</sup>; Kert., Chapra.  
Cat. Dipt., V, 144<sup>7</sup>. 2, 3 E. India.

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6 Java.

**propinquus**, Brunetti.

*Bombylius propinquus*, Brun., R. I. M., 1, 2, 3 Ceylon.  
III, 226 (1909)<sup>1</sup>; id., Spol. Zeyl., VI,  
171<sup>2</sup>; id., F. I. Dipt. Brachy., I, 272<sup>3</sup>.

**pseudoterminalis**, nom. nov.

*Bombylius vicinus*, Brun. [nec. Mq.], 1, 3 Allahabad.  
R. I. M., II, 457, 480 (1909)<sup>1</sup>; id., 2 Nepal Terai.  
loc. cit., III, 226<sup>2</sup>; id., F. I. Dipt.  
Brachy. I, 270<sup>3</sup>.

**terminalis**, Brunetti.

*Bombylius terminalis*, Brun., R. I. M., 1, 2 Allahabad.  
II, 457, 479 (1909)<sup>1</sup>; id., F. I. Dipt. 2 Lahore.  
Brachy. I, 270<sup>2</sup>.

**wulpii**, Brunetti.

*Bombylius pulchellus*, Wulp [nec. Lw.], 3, 4, 5, 6, 7 Ceylon.  
Tijd. v. Ent. XXIII, 164, t. 10, f. 8  
(1880)<sup>1</sup>; id., Leyd. Mus. Notes, VII,  
15. 5 Tenmalai.  
*Comastes pulchellus*, Wulp, Cat. Dipt. S. 7 Dehra Dun.  
Asia, 74<sup>2</sup>. 7 Bellary District.  
7 Orissa.  
7 N. Kanara.

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- Eucharimyia pulchellus*, Kert., Cat. Dipt. V, 147<sup>3</sup>.  
*Eucharimyia dives*, Big., Ann. S. Ent. Fr., (6) VIII, Bull. p. cxl. (1888); Wulp, Cat. Dipt. S. Asia, 73<sup>4</sup>.  
*Bombylius scintillans*, Brun., R. I. M., III, 224 (1909)<sup>5</sup>.  
*Bombylius vulpii*, Brun., R. I. I., II, 457 (1909)<sup>6</sup>; *id.*, loc. cit., III, 226<sup>6</sup>; *id.*, F. I. Dipt. Brachy. I, 264<sup>7</sup>.

8. *Dischistus*, Loew.

- Dischistus*, Lw., Neue Beitr., III, 45, (1855) [Genotype, *Bo. bylius minimus*, Schrk.]; Kert., Cat. Dipt., V, 116; Brun., F. I. Dipt. Brachy. I, 273.  
*Bombylosoma*, Rend., Dipt. Ital. Prodri., i, 164 (1856) [*nec. id.*, Arch. Zool. Modena, III, 67 (1863)].  
*Bombylosoma*, Marschall, Nomencl. Zool., 323 (1873).  
*Bombylosoma*, Verz. *apud* Scudder, Nomencl. Zool., 47 (1882).

*ardens*, Walker.

- Bombylius ardens*, Wlk., List Dipt. B. M., II, 284 (1849)<sup>1</sup>; Wulp, Cat. Dipt. S. Asia, 74<sup>2</sup>; Kert., Cat. Dipt., V, 126<sup>3</sup>.  
*Systoechus ardens*, Brun., R. I. M., II, 458.  
*Dischistus ardens*, Brun., F. I. Dipt. Brachy. I, 275<sup>4</sup>.

*resplendens*, Brunetti.

- Dischistus resplendens*, Brun., R. I. M., II, 458, 481 (1909)<sup>1</sup>; *id.*, loc. cit., III, 226; *id.*, F. I. Dipt. Brachy. I, 273, fig. 15<sup>3</sup>, <sup>1, 2, 3</sup> Simla Hills. <sup>1, 3</sup> Nepal. <sup>1, 3</sup> Naini Tal. <sup>1, 3</sup> Assam. <sup>3</sup> Dehra Dun. <sup>3</sup> Ceylon, E. Prov.

## LOMATINÆ.

Verrall, Br. Flies, V, 506; Brun., F. I.  
Dipt. Brachy. I, 255.

## 9. Aphoebantus, Loew.

*Aphaebantus*, Lw., Cent., X, 39, (1872)  
[Genotype, *A. cervinus*, Lw.]; O.-S.,  
Biologia, I, 143-146; Coq., Can. Ent.,  
XVIII, 84; *id.*, Trans. Amer. Ent.  
Soc., XXI, 104; *id.*, W. Amer. Sci.,  
1891, 256; Will., Biologia, I, 285,  
[notes]; Ald., Cat. N. Amer. Dipt.,  
242; Brun., F. I. Dipt. Brachy, I,  
256.

*Triodites*, O.-S., Bull. U. S. Geol. Surv., III,  
245 (1877).

*ceylonicus*, Brunetti.

*Argyramoeba ceylonica*, Brun., R. I. M., I, 2, 3 Ceylon.  
II, 450, 471, t. 12, f. 24 (1909)<sup>1</sup>; *id.*,  
Spol. Zeyl., VI, 171<sup>2</sup>.  
*Aphoebantus ceylonicus*, Brun. F. I.  
Dipt. Brachy. I, 257<sup>3</sup>.  
<sup>1</sup> Trivandrum.  
<sup>1, 3</sup> Pusa.  
<sup>3</sup> Darjiling District.  
<sup>3</sup> Allahabad.  
<sup>3</sup> Chapra.  
Abbottabad.

## TO XOPHORINÆ.

Verr., Br. Flies, V, 509; Brun., F. I.  
Dipt. Brachy. I, 286.

## 10. Toxophora Meigen.

*Toxophora*, Mg., Illig. Mag., II, 270, (1803)  
[Genotype, *Asilus maculatus*, Rossi];  
*id.*, Klass., 1804; *id.*, Syst. Besch.,  
II, 178; Sch., F. Austr., I, 69; Coq.,  
Entomol. Amer., I, 1886, 221; *id.*,  
W. Amer. Sci. 1891, 199; Glover,  
Entomol. Rpt., 1866, 45 [reared from

*Eumenes* nest]; *id.*, loc. cit., 1870, 78; *id.*, loc. cit., 1877, 105, [preying on *Bembex*]; Wulp, Cat. Dipt. S. Asia, 74; Kert., Cat. Dipt., V, 91; Brun., R. I. M., II, 458; *id.*, F. I. Dipt. Brachy. I, 287.

**javana**, Wiedemann.

*Toxophora javana*, Wd., Dipt. Exot., 3, 4 Calcutta. 179 (1821); *id.*, Auss. Zweifl. Ins., I, 4 Allahabad. 363; Mq., Suit. à Buff., 387, 2; Wulp, 4 Madras. Cat. Dipt. S. Asia, 74<sup>1</sup>; Meij., Tijd. v. Ent., LIII, 66; Brun., R. I. M., II, 458, t. 12 f. 28<sup>3</sup>; *id.*, F. I. Dipt. 2, 4 Java. Brachy. I, 287, t. 3 f. 16<sup>4</sup>.

**SYSTROPINÆ.**

Verr., Br. Flies, V, 513; Brun., F. I. Dipt. Brachy. I, 289.

**II. Systropus, Wiedemann.**

*Systropus*, Wd., Nov. Gen. Dipt., 18, (1829) [Genotype, *S. macilentus*, Wd.]; *id.*, Auss. Zweifl. Ins., I, 359; Mq., H. N. Dipt., I, 391; O.-S., Biologia, I, 157 [notes]; Towns., Trans. Amer. Ent. Soc., XXVII, 160; Will., Biologia, I, 292; Ald., Cat. N. Amer. Dipt., 244; Wulp, Cat. Dipt. S. Asia, 74; Kert., Cat. Dipt., V, 93; Brun., R. I. M., II, 459; *id.*, F. I. Dipt. Brachy. I, 289.

*Cephenus*, Latr., Fam. Nat., 496 (1825); Karsch, Zeit. Berl. Ent. Ges., LIII, 657; Wandoll., Ent. Nacht., XXIII, 198.

*Xystropus*, Verr. apud Scudder, Nomencl., 355 (1882); Verr., Br. Flies, V, 514, [note].

**edwardsi**, Brunetti.

*Systropus edwardsi*, Brun., F. I. Dipt. <sup>1</sup> Burma.  
Brachy. I, 294 (1920)<sup>1</sup>.

**eumenoides**, Westwood.

*Systropus eumenoides*, Wstwd., Guérin <sup>2, 3, 4</sup> Ind. Or.  
Mag. Zool., 1842, 4, t. 90 (1842)<sup>1</sup>; *id.*, <sup>5</sup> N. India.  
Trans. Ent. Soc., Lon., 1876, 575,  
t. 10, ff. 13-15; Wulp, Cat. Dipt. S.  
Asia, 74<sup>2</sup>; Kert., Cat. Dipt., V, 94<sup>3</sup>;  
Brun., R. I. M., II, 459<sup>4</sup>; *id.*, F. I.  
Dipt. Brachy. I, 294<sup>5</sup>.

**flavipleura**, Brunetti.

*Inset 5 year Systropus flavipleura*, Brun., Lebong.  
F. I. Dipt. Brachy., I, 295 (1920)<sup>1</sup>.  
<sup>1</sup> Sikkim.  
<sup>1</sup> Khasis.  
Shillong.

**ophioneus**, Westwood.

*Systropus ophionius*, Wstwd., Trans. <sup>2, 3, 4</sup> Ind. Or.  
Ent. Soc., Lon., V, 233, t. 23, f. 6  
(1849)<sup>1</sup>; *id., loc. cit.*, 1876, 574; Wulp,  
Cat. Dipt. S. Asia, 74<sup>2</sup>; Kert., Cat. <sup>5, 6</sup> Nepal.  
Dipt., V, 95<sup>3</sup>; Brun., R. I. M., II, 459<sup>4</sup>,  
*id.*, F. I. Dipt. Brachy. I, 291, fig. 21<sup>5</sup>.  
<sup>5</sup> Masuri.  
<sup>5</sup> Darjiling District.  
<sup>5</sup> Shillong.  
*Systropus nigricaudus*, Brun., R. I. M.,  
II, 460, 483, (1909)<sup>6</sup>.

**ANTHRACINÆ.**

Verr., Br. Flies, V, 515; Brun., F. I. Dipt.  
Brachy. I, 176-178 [tab. genera].

**12. Anthrax, Scopoli.**

*Anthrax*, Scop., Ent. Carn., 358, (1763)  
[Genotype, *A. morio*, Fb.]; Fb., Syst.  
Antl., 118, (1805); Mg., Syst. Besch.,

II, 107; Sch. F. Austr., I, 48;  
 Coq., Trans. Amér. Ent. Soc., XIV  
 159; *id.*, loc. cit., XIX, 170; *id.*,  
*loc. cit.*, XXI, 97; Ald., Cat. Dipt.  
 N. Amer., 228; O.-S., Biologia, I,  
 111-140 [subgenera]; Wulp, Cat. Dipt.  
 S. Asia, 71; Kert., Cat. Dipt., V, 25;  
 Verr., Br. Flies, V, 518; Brun., R. I.  
 M., II, 451-456; *id.*, F. I. Dipt.  
 Brachy. I, 234-236.

*Aspiloptera*, Kunckel, Bull. Soc. Fr. Belg.  
 XXXIX, 145 [note] (1905).

*Chrysanthrax*, O.-S., Biologia, 121 (1886).

*Dipalta*, O.-S., Bull. U. S. Geol. Surv., III,  
 236 (1877); Coq., Can. Ent., 1886,  
 157; *id.*, Trans. Amer. Ent. Soc.,  
 XIV, 159; *id.*, loc. cit., XIX, 169;  
 Will., Biologia, I, 275; Ald., Cat. N.  
 Amer., Dipt., 227.

*Hemipenthes*, Lw., Berl. Ent. Zeit., XIII,  
 28 [note] (1869).

*Hyalanthrax*, O.-S., Biologia, 134 (1877).

*Isopenthaltes*, O.-S., Biologia, 80, 96 (1886).

?*Paranthrax*, Big., Bull. Soc. Ent. Fr., (5)  
 VI, lxvi (1876).

*Poecilanthrax*, O.-S., Biologia, 119 (1886).

*Stonyx*, O.-S., Biologia, 80, 94 (1886).

*Thyridanthrax*, O.-S., Biologia, 123 (1886).

*Villa*, Lioy, Atti. Istit. Veneto, (3) IX, 732  
 (1864).

### **afra**, Fabricius.

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| <i>Anthrax afra</i> , Fb., Ent. Syst., IV, 258<br>(1794); <i>id.</i> , Syst. Antl., 122, 15; Sch.,<br>F. Austr., I, 50; Wulp, Cat. Dipt.<br>S. Asia, 71 <sup>2</sup> ; Kert., Cat. Dipt., V,<br>27 <sup>3</sup> ; Brun., R. I. M., II, 451 <sup>4</sup> ; <i>id.</i> ,<br><i>loc. cit.</i> , III, 222 <sup>5</sup> ; <i>id.</i> , F. I. Dipt.<br>Brachy. I, 240 <sup>6</sup> . | <sup>2, 3</sup> E. India.<br><sup>4</sup> Jubbulpore.<br><sup>4</sup> Poona.<br><sup>4, 6</sup> Meerut.<br><sup>4</sup> Jhansi.<br><sup>4, 6</sup> L. Burma.<br><sup>4, 6</sup> Orissa.<br><sup>4, 5, 6</sup> Gonda, U. P.<br><sup>4, 6</sup> Allahabad. |
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- Anthrax fimbriata*, Mg., Klass., I, 205,  
 (1804); *id.*, Syst. Besch., II, 154, t. 17,

- f. 13; Mq., Suit. à Buff., I, 405, 16; 4, 6 N. Bihar.  
*id.*, Dipt. Exot., II, 162, 18. 5 Dehra Dun.  
 6 Anamalais.  
 6 Satara District.  
 6 Madhupur.  
 6 Ferozepore.  
 6 Madras.  
 6 Trincomali.  
 6 Andamans.

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2, 3 Europe.  
 2, 3 N. & W. Africa.  
 3 Oceania.

**albofulva**, Walker.

- Anthrax albofulva*, Wlk., Dipt. Saund., 2, 3 E. India.  
 (3) 182 (1852); Wulp, Cat. Dipt. S. 4 Muttra.  
 Asia, 72<sup>2</sup>; Kert., Cat. Dipt., V, 28<sup>3</sup>; 4 Meerut.  
 Brun., R. I. M., II, 454<sup>4</sup>; *id.*, F. I. 4 Ferozepore.  
 Dipt. Brachy. I, 251. 4 Allahabad.

**aperta**, Walker.

- Anthrax aperta*, Wlk., Dipt. Saund., I, 2, 3 E. India.  
 180 (1852); Wulp, Cat. Dipt. S. Asia, 4, 6 Masuri.  
 72<sup>2</sup>; Kert., Cat. Dipt., V, 29<sup>3</sup>; Brun., 5, 6 Simla.  
 R. I. M., II, 453, 475<sup>4</sup> [redescri.]; *id.*, 6 Dehra Dun.  
*loc. cit.*, III, 223<sup>5</sup>; *id.*, F. I. Dipt. 6 Khasis.  
 Brachy. I, 245<sup>6</sup>. 6 Dawnat Range.

- Argyramoeba aperta*, Howl., Ind. Ins. L.,  
 t. 63, f. 2.

**approximata**, Brunetti.

- Anthrax approximata*, Brun., R. I. M., 1, 2 Simla.  
 XIII, 74 (1917)<sup>1</sup>; *id.*, F. I. Dipt. Abbottabad.  
 Brachy. I, 244<sup>2</sup>. 1, 2 Siliguri.  
*Anthrax (?) clara var.*, Brun., R. I. M., Pusa.  
 II, 474<sup>3</sup>. 1, 2, 3 Tenasserim.  
 1, 2 Khasis.  
 1, 2 Ceylon, E. P.

**aureohirta**, Brunetti.

*Anthrax aureohirta*, Brun., R. I. M., III, <sup>1, 2</sup> Calcutta.  
 223 (1909)<sup>1</sup>; *id.*, F. I. Dipt. Brachy.  
 I, 252<sup>2</sup>.

**baluchianus**, Brunetti.

*Anthrax baluchianus*, Brun., F. I. Dipt. <sup>1</sup> Baluchistan.  
 Brachy. I, 250<sup>1</sup> (1920). <sup>1</sup> Kashmir.  
<sup>1</sup> Bahist Khal.  
<sup>1</sup> Bhittani.

**clara**, Walker.

*Anthrax clara*, Wlk., Dipt. Saund., (3) <sup>2, 3</sup> E. India.  
 179 (1852); Wulp, Cat. Dipt. S. Asia, <sup>4, 5</sup> Dehra Dun.  
 72<sup>2</sup>; Kert., Cat. Dipt., V, 32<sup>3</sup>; Brun., <sup>4, 5</sup> Gahrwal.  
 R. I. M., II, 452, 473<sup>4</sup> [redescri.]; <sup>5</sup> W. Himalaya.  
*id.*, F. I. Dipt. Brachy. I, 243<sup>5</sup>. <sup>5</sup> Khasis.

**clausa**, Brunetti.

*Anthrax clausa*, Brun., R. I. M., II, 454, <sup>1, 2</sup> L. Burma.  
 477<sup>1</sup> (1909); *id.*, F. I. Dipt. Brachy.  
 I, 253.

**dia**, Wiedemann.

*Anthrax dia*, Wd., Anal. Ent., 23 (1824)<sup>1</sup>; <sup>2, 3, 4, 5</sup> Tranquebar.  
*id.*, Auss. Zweifl. Ins., I, 293; Wulp,  
 Cat. Dipt. S. Asia, 71<sup>2</sup>; Kert., Cat.  
 Dipt., V, 34<sup>3</sup>; Brun., R. I. M., II,  
 453<sup>4</sup>; *id.*, F. I. Dipt. Brachy. I, 250<sup>5</sup>.

**fletcheri**, Brunetti.

*Anthrax fletcheri*, Brun., F. I. Dipt. <sup>1</sup> Mysore.  
 Brachy. I, 236 (1920)<sup>1</sup>.  
<sup>1</sup> Habarane.  
<sup>1</sup> Trincomali (White)

**fuscolimbata**, Brunetti.

*Anthrax fuscolimbata*, Brun., R. I. M.,  
 XIII, 75 (1917)<sup>1</sup>; *id.*, F. I. Dipt. Hangu (N.-W. F. P.).  
 Brachy. I, 246<sup>2</sup>. <sup>1, 2</sup> Simla.  
<sup>1, 2</sup> Masuri.  
<sup>1, 2</sup> Madras.]

**guttatipennis**, Brunetti.

*Anthrax guttatipennis*, Brun., F. I. Dipt. <sup>1</sup> Trincomali.  
Brachy. I, 237 (1920)<sup>1</sup>.

**himalayensis**, Brunetti.

*Anthrax himalayensis*, Brun., R. I. M., <sup>1, 2, 3</sup> Naini Tal.  
III, 222, fig. (1909)<sup>1</sup>. <sup>2</sup> Simla District.  
*Anthrax himalayanus*, Brun., F. I. Dipt. <sup>2</sup> Khasis.  
Brachy., I, 238<sup>2</sup> [*lapsus*].  
*Anthrax maura*, Brun. [nec. L.], R. I. M.,  
II, 451<sup>3</sup>.

**hottentota**, Linnæus var. **claripennis**,

Brunetti.

*Anthrax hottentota* var. *claripennis*, Brun., <sup>1, 2</sup> Naini Tal (plains).  
R. I. M., II, 452 (1909)<sup>1</sup>; *id.*, F. I.  
Dipt. Brachy. I, 247<sup>2</sup>.

**leucopygus**, Macquart.

*Anthrax leucopyga*, Mq., Dipt. Exot., II, <sup>4</sup> Jubbulpore.  
74, t. 21, f. 1 (1842)<sup>1</sup>; Wulp, Cat. Dipt.  
S. Asia, 71<sup>2</sup>; Kert., Cat. Dipt., V, 43<sup>3</sup>;  
Brun., R. I. M., II, 453<sup>4</sup>.  
[Omitted from the "Fauna of India"  
volume.] <sup>4</sup> \_\_\_\_\_  
\_\_\_\_\_  
<sup>2, 3</sup> Timor.

**limpida**, Walker.

*Anthrax limpida*, Wlk., Dipt. Saund., <sup>2, 3, 4, 5</sup> E. India.  
(3) 179 (1853); Wulp, Cat. Dipt. S.  
Asia, 72<sup>2</sup>; Kert., Cat. Dipt., V, 44<sup>3</sup>;  
Brun., R. I. M., II, 453<sup>4</sup>; *id.*, F. I.  
Dipt. Brachy. I, 255<sup>5</sup>.

**lucida**, Walker.

*Anthrax lucida*, Wlk., Dipt. Saund., (3), <sup>2, 3, 4, 5</sup> E. India.  
179 (1852); Wulp, Cat. Dipt. S. Asia,  
72<sup>2</sup>; Kert., Cat. Dipt., V, 44<sup>3</sup>; Brun.,  
R. I. M., II, 453<sup>4</sup>; *id.*, F. I. Dipt.  
Brachy. I, 254<sup>5</sup>.

**manifesta**, Walker.

- Anthrax manifesta*, Wlk., Dipt. Saund., 2, 3, 4 E. India.  
 I, 178 (1852); Wulp, Cat. Dipt. S. 4 Masuri.  
 Asia, 72<sup>2</sup>; Kert., Cat. Dipt., V, 45<sup>3</sup>; 5 Himalaya.  
 Brun., R. I. M., II, 453, 476<sup>4</sup>; id., F. I. 5 Dehra Dun.  
 Dipt. Brachy. I, 243<sup>5</sup>. 5 Garhwal.  
 6 Khasis.

**paniscus**, Rossi.

- Bibio paniscus*, Ross., F. Etrus., II, 256 3, 4 Simla.  
 (1790)<sup>1</sup>. 3, 4 Naini Tal.  
*Anthrax paniscus*, Verr., Br. Flies, V, 526; Kert., Cat. Dipt., V, 50<sup>2</sup>; Brun., 3 Masuri.  
 R. I. M., II, 452<sup>3</sup>; id., F. I. Dipt.  
 Brachy. I, 248<sup>4</sup>.  
*Anthrax bimaculatus*, Mq., Suit. à Buff.,  
 I, 403 (1834).  
*Anthrax cingulatus*, Mg., Syst. Besch., 2 Europe.  
 II, 145 (1820).  
*Anthrax hottentotus*, Wlk. [nec. L.], List  
 Dipt. B. M., II, 259 (1849).

**referrens**, Walker.

- Anthrax referrens*, Wlk., Dipt. Saund., 2, 3, 4, 5 E. India.  
 (3) 189 (1852); Wulp, Cat. Dipt. S.  
 Asia, 72<sup>2</sup>; Kert., Cat. Dipt., V, 52<sup>3</sup>; 5  
 Brun., R. I. M., II, 452<sup>4</sup>; id., F. I.  
 Dipt. Brachy. I, 255<sup>5</sup>.

**semifuscata**, Brunetti.

- Anthrax semifuscata*, Brun., F. I. Dipt. 1 Trincomali.  
 Brachy., I, 241 (1920)<sup>1</sup>.

**troglodyta**, Fabricius.

- Bibio troglodyta*, Fb., Syst. Ent., 759 3, 5 E. Indies.  
 (1775)<sup>1</sup>. 3, 4 E. India.  
*Anthrax troglodyta*, Wd., Auss. Zweifl.  
 Ins., I, 306; Wulp, Notes Leyd. Mus.,  
 VII, 83; id., Cat. Dipt. S. Asia, 71<sup>2</sup>;  
 Meij., Tijd. v. Ent. L, 240; Brun.,

- R. I. M., I, 452<sup>3</sup>; *id.*, F. I. Dipt.  
*Brachy.* I, 254<sup>4</sup>; Kert., Cat. Dipt., V,  
 56<sup>5</sup>.  
*Anthrax kyalina*, Wd., Dipt. Exot., I, 2, 3 Java.  
 141, 34 (1821); *id.*, Auss. Zweifl. Ins., 2 Sumatra.  
 I, 297; Wulp, Tijd. v. Ent., XXIII, 3, 5 Papua.  
 165. 5 Ind. Archip.  
*Anthrax lucens*, Wlk., Dipt. Saund. 180,  
 (1852).

### 13. Lepidanthrax, Osten-Sacken.

*Lepidanthrax*, O.-S., Biologia, I, 107 (1886)  
 [Genotype, *Anthrax disjuncta*, Wd.];  
 Coq., Trans. Amer. Ent. Soc., XIX,  
 169; Ald., Cat. N. Amer. Dipt., 227;  
 Brun., F. I. Dipt. Brachy. I, 232.

**compacta**, Brunetti.

*Lepidanthrax compacta*, Brun., F. I. 1 Allahabad.  
 Dipt. Brachy. I, 233 (1920)<sup>1</sup>.

**transversa**, Brunetti.

*Lepidanthrax transversa*, Brun., F. I. 1 Dehra Dun.  
 Dipt. Brachy. I, 233 (1920)<sup>1</sup>.

### 14. Argyromoeba, Schiner.

*Argyromoeba*, Sch., Wien. Ent. Monat., IV,  
 5 (1860) [Genotype, *Anthrax tripunctata*, Wd.]; *id.*, F. Austr., I, 52; Lw.,  
 Besch. Europ. Dipt., I, 228.

*Argyromoeba*, Lw., Centur., II, 290 [emend.];  
 Wulp, Cat. Dipt. S. Asia, 73; Kert.,  
 Cat. Dipt., V, 59 [*Argyromoeba, laps.*];  
 Brun., R. I. M., II, 448, 450; *id.*, F. I.  
 Dipt. Brachy. I, 214.

*Spogostylum*, Will. [ne. Mq.], Man. N. Amer.  
 Dipt., (2nd edn.), 65, (1896); *id.*, loc.  
 cit., (3rd edn.); 214, Ald., Cat. N.  
 Amer. Dipt., 221.

**argentiapicalis**, Brunetti.

*Argyramoeba argentiapicalis*, Brun., R. <sup>1, 2</sup> Mahableshwar.  
 I. M., VII, 470, t. 37, f. 6 (1912)<sup>1</sup>; *id.*,  
 F. I. Dipt. Brachy. I, 227, Pl. III,  
 14<sup>2</sup>.

**bigoti**, Brunetti.

*Argyramoeba appendiculata*, Big. [nec. <sup>1, 2, 3, 4, 5</sup> Fondicherry.  
 Mq.], Ann. S. Ent. Fr. (7) II, 347  
 (1892)<sup>1</sup>; Wulp, Cat. Dipt. S. Asia, 73<sup>2</sup>;  
 Kert., Cat. Dipt., V, 61<sup>3</sup>; Brun., R. I.  
 M., II, 449<sup>4</sup>.

*Argyramoeba bigoti*, Brun., R. I. Dipt.  
 Brachy. I, 222 (1920)<sup>5</sup>.

**bipunctata**, Fabricius.

*Anthrax bipunctata*, Fb., Syst. Antl., 118  
 (1805)<sup>1</sup>; Wd., Auss. Zweifl. Ins., I,  
 286; Wulp, Cat. Dipt. S. Asia, 71<sup>2</sup>.  
*Argyramoeba bipunctata*, Kert., Cat.  
 Dipt. V, 62<sup>3</sup>; Brun., R. I. M., II, 448<sup>4</sup>;  
 t. 12, f. 23; *id.*, F. I. Dipt. Brachy. I,  
 217<sup>6</sup>.  
*Anthrax carbonaria*, Wlk., Dipt. Saund.,  
 173 (1852); Wulp, Cat. Dipt. S. Asia,  
 72<sup>5</sup>; Kert., Cat. Dipt., V, 31<sup>7</sup>.  
<sup>2, 3, 4</sup> Tranquebar.  
<sup>4, 6</sup> Karachi.  
<sup>4, 6</sup> Purneah.  
<sup>5, 7</sup> E. India.  
<sup>6</sup> Calcutta.  
<sup>6</sup> Kumaon.  
<sup>6</sup> Pusa.  
<sup>6</sup> Chapra.  
<sup>6</sup> Bombay.  
<sup>6</sup> Assam.  
<sup>6</sup> Konan Kuppam.

**claripennis**, Brunetti.

*Argyramoeba claripennis*, Brun., R. I. M., <sup>1, 2</sup> Lahore.  
 III, 218 (1909)<sup>1</sup>; *id.*, F. I. Dipt.  
 Brachy. I, 228<sup>2</sup>.

**distigma**, Wiedemann.

*Anthrax distigma*, Wd. Auss. Zweifl. Ins., <sup>8</sup> Matheran.  
 I, 309 (1828)<sup>1</sup>; Mq., Dipt. Exot., II,  
 1, 58, 9.  
*Spogostylum distigma*, Coq., Proc. U. S. <sup>4</sup> Jullundur.  
 Nat. Mus., XXI, 318. <sup>4, 7</sup> Bengal.  
<sup>4</sup> Allahabad.  
<sup>4</sup> Bombay.

- Argyramoeba distigma*, Sch., Novara  
 Reise, 122, 14; Wulp, Tijd. v. Ent.,  
 XXIII, 166, 19; *id.*, Leyd. Mus.  
 Notes, VII, 83, 38; *id.*, Cat. Dipt. S.  
 Asia, 73<sup>2</sup>; O.-S., Berl. Ent. Zeit.,  
 XXVI, 122; Kert., Cat. Dipt., V, 63<sup>3</sup>;  
 Brun., R. I. M., II, 449<sup>4</sup>; *id.*, loc. cit.,  
 III, 221<sup>5</sup>; *id.*, Spol. Zeyl., VI, 171<sup>6</sup>;  
*id.*, F. I. Dipt. Brachy. I, 218, t. 3, f.  
 10<sup>7</sup>; Meij., Tijd. v. Ent. L, 241 (1907);  
 Howl., Ind. Ins. L, 598; Longst.,  
 Butterfly Hunting, 393<sup>8</sup>; Dutt, Pusa  
 Ent. Mem., IV, 212 [notes].
- 5, 7 Paresnath.  
 5, 7 Naini Tal District.  
 6, 7 Ceylon.  
 7 Hamirpur.  
 7 Madras.  
 7 Utakamund.  
 7 Mettupalaiyam.  
 7 Khasis.  
 7 L. Burma.  
 4, 7 Darjiling.  
 4 Dehra Dun.  
 4, 7 Lucknow.  
 4, 7 Bangalore.  
 3, 4 Nicobars.

- 
- 2, 4 Java.  
 2, 4 Sumatra.  
 2, 4 Celebes.  
 2, 3, 4 Philippines.  
 2, 3, 4 New Guinea.

### *duvaucelii*, Macquart.

- Anthrax duvaucelii*, Mq., Dipt. Exot.,  
 II, 63, t. 20, f. 7 (1840)<sup>1</sup>; Wulp, Cat.  
 Dipt. S. Asia, 71<sup>2</sup>; Kert., Cat. Dipt.,  
 V, 35<sup>3</sup>; Brun., R. I. M., II, 452<sup>4</sup>.  
*Argyramoeba duvaucellii*, Brun., R. I. M.,  
 III, 219<sup>5</sup> [redescri.]; *id.*, F. I. Dipt.  
 Brachy. I, 225<sup>6</sup>.
- 2, 3, 4 Bengal.  
 4, 5, 6 Purneah.  
 4 Cawnpore.  
 4, 6 Chapra.  
 5, 6 Baraich, U. P.  
 6 Kangra Valley.  
 6 Pusa.  
 6 Lahore.  
 6 Murree Hills.  
 Peshawar.  
 6 Allahabad.

### *gentilis*, Brunetti.

- Argyramoeba gentilis* Brun. R. I. M., 1, 2 Laksam.  
 II, 449, 470, t. 12, f. 25 (1909)<sup>1</sup>; *id.*, 1, 2 Margherita.  
 F. I. Dipt. Brachy. I, 230<sup>2</sup>.

**gestroi**, Brunetti.

- Argyramoeba gestroi*, Brun., R. I. M., 1 Bombay Presidency.  
 VII, 470, t. 37, f. 7 (1912)<sup>1</sup>; *id.*, F. I. 2 Satara District.  
 Dipt. Brachy., I, 222<sup>2</sup>. 2 Travancore.  
 2 Bangalore. 2 Chapra.  
 Pusa. Peshawar.

**instituta**, Walker.

- Anthrax instituta*, Wlk., Dipt. Saund., 2, 3, 4, 5 E. India.  
 183 (1852)<sup>1</sup>; Wulp, Cat. Dipt. S. Asia,  
 72<sup>2</sup>; Kert., Cat. Dipt., V, 42<sup>3</sup>.  
*Argyramoeba instituta*, Brun., R. I. M.,  
 II, 450<sup>4</sup>; *id.*, F. I. Dipt. Brachy., I,  
 227<sup>5</sup>.

**intermedia**, Brunetti.

- Argyramoeba intermedia*, Brun., F. I. 1 Orissa.  
 Dipt. Brachy., I, 221 (1920)<sup>1</sup>. 1 Allahabad.  
 1 Trincomali.

**limitarsis**, Brunetti.

- Argyramoeba limitarsis*, Brun., R. I. M., 1, 2 Garhwal.  
 III, 217 (1909). . .  
*Argyramoeba limitaris*, Brun., F. I. Dipt.  
 Brachy., I, 220<sup>2</sup>, [emend.]

**nigrofemorata**, Brunetti.

- Argyramoeba nigrofemorata*, Brun., R. I. 1, 2 Garhwal District.  
 M., III, 219 (1909)<sup>1</sup>; *id.*, F. I. Dipt. 1, 2 Satara District.  
 Brachy., I, 230<sup>2</sup>.

**niveicauda**, Brunetti.

- Argyramoeba niveicauda*, Brun., F. I. 1 Travancore.  
 Dipt. Brachy., I, 224 (1920)<sup>1</sup>. 1 Calcutta.  
 1 Sylhet. 1 Chapra.

**niveisquamis**, Brunetti.

*Argyramoeba niveisquamis*, Brun., R. I. <sup>1, 2</sup> Baluchistan.  
 M., II. 472 (1909)<sup>1</sup>; *id.*, F. I. Dipt.  
 Brachy. I, 229<sup>2</sup>.

**obscurifrons**, Brunetti.

*Argyramoeba obscurifrons*, Brun., R. I. <sup>1, 2</sup> Simla District.  
 M., III, 216 (1909)<sup>1</sup>; *id.*, F. I. Dipt.  
 Brachy. I, 220<sup>2</sup>, t. 3 f. 11.

**varia**, Fabricius.

*Anthrax varia*, Fb., Ent. Syst., IV, 259  
 (1794)<sup>1</sup>; *id.*, Syst. Antl., 122; Mg.,  
 Syst. Besch., II, 124.

<sup>3</sup> Bhim Tal.

*Argyramoeba varia*, Sch., F. Austr., I,  
 54; Kert., Cat. Dipt., V, 68<sup>2</sup>; Brun.,  
 R. I. M., II, 450<sup>3</sup>; Coq., Trans. Amer.  
 Ent. Soc., XXI, 96.

<sup>2</sup> Europe.

<sup>2</sup> N. America.

*Spogostylum varium*, Ald., Cat. N. Amer.  
 Dipt., 223.

[Omitted from the "Fauna of India"  
 volume.]

**15. Spogostylum, Macquart.**

*Spogostylum*, Mq., Dipt. Exot., II, 1, 53  
 (1841) [Genotype, *Sp. mystaceum*,  
 Macq.]; Kert., Cat. Dipt., V, 58  
 [*Spongostylum*]; Brun., F. I. Dipt.  
 Brachy. I, 213.

**austeni**, Brunetti.

*Spogostylum austeni*, Brun., F. I. Dipt. <sup>1</sup> Lahore.  
 Brachy. I, 213 (1920)<sup>1</sup>.

**16. Exoprosopa, Macquart.\***

*Exoprosopa*, Mq., Dipt. Exot., II, 35, (1840)  
 [Genotype, *Bibio capucina*, Fb. as

\*Whilst this catalogue has been passing through Press a paper by Nurse has appeared (*Jo. Bomb. N. H. S.* xxviii, 630, tab., June 1922), in which ten new species are described and three Palaearctic species added to the Indian Fauna. Revised key for determination of all described species, pp. 631-632.

*pandora*, Fb.] ; Sch., F. Austr., I, 54 ; Coq., Can. Ent., XXIV, 123 ; O.-S., Biologia, I, 77 ; Will., loc. cit., I, 269 ; Ald., Cat. N. Amer. Dipt., 225 ; Wulp, Cat. Dipt. S. Asia, 69 ; Kert., Cat. Dipt., V, 5 ; Brun., R. I. M., II, 443, 447, id., F. I. Dipt., Brachy. I, 189.

*Argyrospila*, Rond., Dipt. Ital. Prodr., I, 162 (1856).

*Argyrosipa*, Verr., apud Scudd., Nomencl., 32 (1882).

*Deflippia*, Lioy, Atti. Istit. Veneto, (3) IX, 733 (1864).

*Exoptata*, (p. p.), Coq., Can. Ent., XIX, 13 (1887).

*Hoteralonia*, Rond., Arch. Zool. Modena, III, (sep.) 57 (1863).

*Litorhynchus*, Mq., Dipt. Exot., II, 78 (1840).

*Trinaria*, Muls., Mem. Acad. Lyon. (2) II, 20 (1852).

#### **albida**, Walker.

*Anthrax albida*, Wlk., Dipt. Saund., I, 1, 2, 3, 4, 5 E. Indies. 171 (1852)<sup>1</sup> ; Wulp, Cat. Dipt. S. Asia, 72<sup>2</sup>.

*Exoprosopa albida*, Kert., Cat. Dipt., V, 6<sup>3</sup> ; Brun., R. I. M., II, 447 ; id., F. I. Dipt. Brachy. I, 212.

#### **alexon**, Walker.

*Anthrax alexon*, Wlk., List Dipt. B. M., 1, 2, 3, 4, 5 E. Indies. II, 246 (1849)<sup>1</sup> ; Wulp, Cat. Dipt. S. Asia, 71<sup>2</sup>.

*Exoprosopa alexon*, Kert., Cat. Dipt., V, 6<sup>3</sup> ; Brun., R. I. M., II, 445<sup>4</sup> ; id., F. I. Dipt. Brachy., I, 211<sup>5</sup>.

#### **annandalei**, Brunetti.

*Exoprosopa annandalei* Brun., R. I. M., 1, 2 Moulmein. II, 445, 469, t. 12, f. 20 (1909)<sup>1</sup> ; id., F. I. Dipt. Brachy. I, 199, t. 3, f. 8.<sup>2</sup>

**auripleura**, Walker.

*Anthrax auripleura*, Wlk., Dipt. Saund., 1, 2, 3, 4, 5 E. Indies.  
 I, 171 (1852)<sup>1</sup>; Wulp, Cat. Dipt. S.  
 Asia, 72<sup>2</sup>.

*Exoprosopa auripleura*, Kert., Cat. Dipt.,  
 V, 7<sup>3</sup>; Brun., R. I. M., II, 445<sup>4</sup>; *i.d.*,  
 F. I. Dipt. Brachy. I, 212<sup>5</sup>.

**basifascia**, Walker.

*Anthrax basifascia*, Wlk., List Dipt. 2, 4 Bengal.  
 B. M., II, 248 (1849)<sup>1</sup>; Wulp, Cat. 3, 5 N. Bengal.  
 Dipt. S. Asia, 71<sup>2</sup>.

*Exoprosopa basifascia*, Kert., Cat. Dipt.,  
 V, 7<sup>3</sup>; Brun., R. I. M., II, 447<sup>4</sup>; *i.d.*,  
 F. I. Dipt. Brachy. I, 211<sup>5</sup>.

**bengalensis**, Macquart.

*Exoprosopa bengalensis*, Mq., Dipt. Exot., 2, 3, 4 Bengal.  
 II, 49, t. 18, f. 4 (1840)<sup>1</sup>; Wulp, Cat. 5 Bellary.  
 Dipt. S. Asia, 70<sup>2</sup>; Kert., Cat. Dipt., 5 Bellary District.  
 V, 7<sup>3</sup>; Brun., R. I. M., II, 445, t. 12, 5 Ceylon, E. P.  
 f. 18<sup>4</sup>; *i.d.*, F. I. Dipt. Brachy. I, 206,  
 t. 3, f. 5<sup>5</sup>.

**brahma**, Schiner.

*Exoprosopa brahma*, Sch., Novara Reise, 2, 3, 4, 5 Ceylon.  
 118 (1868)<sup>1</sup>; Wulp, Cat. Dipt. S. Asia,  
 71<sup>2</sup>; Kert., Cat. Dipt., V, 8<sup>3</sup>; Brun.,  
 R. I. M., II, 446, t. 12, f. 22<sup>4</sup>; *i.d.*,  
 F. I. Dipt. Brachy. I, 206, t. 3, f. 6<sup>5</sup>.

**flammea**, Brunetti.

*Exoprosopa flammea*, Brun., R. I. M., 1, 3 Pusa.  
 II, 444, 466 (1909)<sup>1</sup>; *i.d.*, Spol. Zeyl., 2 Ceylon.  
 VI, 171<sup>2</sup>; *i.d.*, F. I. Dipt. Brachy. I, 1 Trivandrum.  
 193<sup>3</sup>; Howl., Ind. Ins. L., t. 63, f. 3 3 Trincomali.  
 (1909).

**flavipennis**, Brunetti.

*Exoprosopa flavipennis*, Brun., R. I. M., 1, 2 Pusa.  
 II, 444, 465 (1909)<sup>1</sup>; *i.d.*, F. I. Dipt.  
 Brachy. I, 192<sup>2</sup>.

*insulata*, Walker.

- Anthrax insulata*, Wlk., Dipt. Saund., 2, 4, 5 E. India.  
 172 (1852)<sup>1</sup>; Wulp, Cat. Dipt. S. Asia, 3, 5, 6 Nepal Terai.  
 72<sup>2</sup>; Brun., R. I. M., III, 222<sup>3</sup>. 3, 6 Gonda, U. P.  
*Exoprosopa insulata*, Kert., Cat. Dipt., Simla.  
 V, 14<sup>4</sup>; Brun., R. I. M., II, 446, t. 12, 5 Masuri.  
 f. 21<sup>5</sup>; id., F. I. Dipt. Brachy. I, 203, 6 Dehra Dun.  
 t. 3, f. 4. 6 Naini Tal.  
*Exoprosopa octonotata*, Big., nom. nud. 6 Allahabad.  
 Belgachia.  
 6 Bhandhara, C. P.  
 6 Madhupur.  
 Chitorgarh.  
 Surat.  
 6 N. Kanara.  
 6 Utakamand.  
 6 Ceylon.  
 6 N. Khasis.  
 6 L. Burma.

*lar*, Fabricius.

- Bibio lar*, Fb., Spec. Ins., II, 414 (1781)<sup>1</sup>. 2, 3, 4 Bengal.  
*Anthrax lar*, Fb., Syst. Antl., 110; id., 4 Bombay.  
 Ent. Syst., IV, 257, 4; Wd., Auss. 5 United Provinces.  
 Zweifl. Ins., I, 268. 5 Central Provinces.  
*Exoprosopa lar*, Wulp, Cat. Dipt. S. Asia, 7 Central India.  
 70<sup>2</sup>; Kert., Cat. Dipt., V, 15<sup>3</sup>; Brun., 6, 7 Madras.  
 R. I. M., II, 443, 444<sup>4</sup>; id., F. I. Dipt. 5, 9 Kangra Valley.  
 Brachy. I, 194-7, t. 3, f. 1<sup>5</sup>. 5, 9 Sikkim.  
*Exoprosopa binotata*, Mq., Dipt. Exot., 5, 10 Ceylon, E. P.  
 Supp. 5, 69, 66 (1855); Wulp, Cat. 5, 7 Mysore.  
 Dipt. S. Asia, 70<sup>8</sup>; Kert., Cat. Dipt., 5, 7 Travancore.  
 V, 81<sup>2</sup>. 8 E. India.

\**Anthrax collaris*, Wd., Auss. Zweifl. Ins., I, 271 (1828); Wlk., List Dipt. B. M., II, 247; Wulp, Cat. Dipt. S. Asia, 71<sup>6</sup>.

*Litorhynchus collaris*, Mq., Dipt. Exot., I, 1, 80.

<sup>1</sup>Nurse (*Bmb. Jo.*, xxviii, 630) now regards this species as distinct, placing it and *tar* in *Litorhynchus* as a valid genus.

*Exoprosopa collaris*, Kert., Cat. Dipt., V, <sup>11</sup> Australia.

9<sup>11</sup>; Brun., R. I. M., II, 444, t. 12,  
f. 16<sup>7</sup>; id., loc. cit., III, 216<sup>9</sup>; id., Spol.  
Zeyl., VI, 171<sup>10</sup>.

*Anthrax ruficollis*, Saund., T. Ent. Soc.  
Lon., III, 59, Pl. V, 5, (1841).

***lateralis*, Brunetti.**

*Exoprosopa lateralis*, Brun., R. I. M., <sup>1, 2</sup> Calcutta.  
II, 445, 467-8, t. 12, f. 7<sup>1</sup> (1909); id., <sup>2</sup> N. Kanara.  
F. I. Dipt. Brachy. I, 198, t. 3, f. 7<sup>2</sup>.

***latipennis*, Brunetti.**

*Exoprosopa latipennis*, Brun., R. I. M., <sup>1, 2</sup> Shillong.  
II, 444, 464-5 (1909)<sup>1</sup>; id., F. I. Dipt. <sup>2</sup> Khasia.  
Brachy. I, 198<sup>2</sup>.

***maculiventris*, Brunetti.**

*Exoprosopa maculiventris*, Brun., F. I. <sup>1</sup> Garhwal.  
Dipt. Brachy. I, 200 (1920)<sup>1</sup>.

***niveiventris*, Brunetti.**

*Exoprosopa niveiventris*, Brun., R. I. M., <sup>1, 2</sup> Paresnath.  
III, 214-216 (1909)<sup>1</sup>; id., F. I. Dipt. <sup>2</sup> S. Coorg.  
Brachy. I, 207<sup>2</sup>. <sup>2</sup> Ceylon, E. P.

***pennipes*, Wiedemann.**

*Anthrax pennipes*, Wd., Dipt. Exot., I,  
129 (1821)<sup>1</sup>; id., Auss. Zweifl. Ins., I,  
272. <sup>4, 5</sup> Karachi.  
<sup>4, 5</sup> Assam.  
<sup>4, 5</sup> Pusa.

*Hyperalonia pennipes*, Rend., Ann. Mus.  
Genoa, VII, 452. <sup>3</sup> Madras.

*Exoprosopa pennipes*, Mq., Dipt. Exot.,  
II, 1, 49; Wulp, Cat. Dipt. S. Asia,  
70<sup>2</sup>; Kert., Cat. Dipt., V, 19<sup>3</sup>; Brun.,  
R. I. M., II, 443<sup>3</sup>; id., F. I. Dipt. <sup>2</sup>?Cape of Good Hope.  
Brachy. I 197<sup>5</sup>.

***puerula*, Brunetti.**

*Exoprosopa puerula* Brun., F. I. Dipt. <sup>1</sup> Madras.  
Brachy. I, 205, t. 3, f. 9 (1920)<sup>1</sup>.

**semilucida**, Walker.

*Anthrax semilucida* Wlk. Dipt. Saund. 1, 2, 3, 4, 5 E. Indies.  
III, 170 (1852)<sup>1</sup>; Wulp, Cat. Dipt., S.  
Asia, 72<sup>2</sup>.

*Exoprosopa semilucida* Kert., Cat.  
Dipt., V, 21<sup>3</sup>; Brun., R. I. M., II,  
447<sup>4</sup>; id., F. I. Dipt. Brachy. I,  
212<sup>5</sup>.

**stylata**, Brunetti.

*Exoprosopa stylata* Brun., F. I. Dipt. 1 Bellary District.  
Brachy. I, 201 (1920)<sup>1</sup>.

**vitrea**, Bigot.

*Exoprosopa vitrea* Big., Ann. Soc., Ent.  
Fr., LXI, 344 (1892)<sup>1</sup>; Wulp, Cat.  
Dipt. S. Asia, 71<sup>2</sup>; Kert., Cat. Dipt.  
V, 24<sup>3</sup>; Brun., R. I. M., II, 447<sup>4</sup>; id.  
*loc. cit.*, VII, 467-8, t. 37, f. 5<sup>5</sup>; id.  
F. I. Dipt. Brachy. I, 210.

2, 3, 4 Pondicherry.

5, 6 Satara District.

6 W. Ghats.

Mohanpur (Bengal).

**vitripennis**, Brunetti.

*Exoprosopa vitripennis*, Brun. R. I. M., 1, 2 Mahableshwar.  
VII, 467-9 (1912)<sup>1</sup>; id., F. I. Dipt. 2 Ceylon E. P.  
Brachy. I, 210<sup>2</sup>.

17. **Hyperalonia**, Rondani.

*Hyperalonia*, Rond., Arch. Zool. Modena,  
III, 1, (1864) [Genotype, *Stomoxys*  
*morio*, Fb., (*Anthrax erythrocephalus*,  
Fb.); O.-S., Biologia, I, 89, [revised  
chars.]; Ald., Cat. N. Amer. Dipt.,  
224; Brun., R. I. M., II, 438, 442;  
id., F. I. Dipt. Brachy. I, 178; Kert.,  
Cat. Dipt., V, I, Will. Biologia, I,  
273 [notes].

*Velocia*, Coq., Can. Ent., XVIII, 158 (1886).

**aurantiaca**, Guerin.

*Anthrax aurantiaca*, Guer., Icon. Regne 2, 3, 4, 5 Bengal.  
Anim., III, (Ins.) 539, t. 95, f. 6 Chapra.  
(?1843)<sup>1</sup>.

*Exoprosopa aurantiaca*, Wulp, Cat.

Dipt. S. Asia, 70<sup>2</sup>; Kert., Cat. Dipt., V. 7<sup>3</sup>.

*Hyperalonia aurantiaca*, Brun., R. I. M.,

II, 440, 460 [redescr.]<sup>4</sup>; *id.*, F. I. Dipt. Brachy. I, 186<sup>5</sup>.

### chrysolampis, Jaennicke.

*Exoprosopa chrysolampis*, Jaen., Abh. Senck. Nat. Ges., VI, 344, t. 43, f. 8

(1867)<sup>1</sup>; O.-S., Ann. Mus. Gen., XVI, 433; Wulp, Cat. Dipt. S. Asia, 70<sup>2</sup>.

*Hyperalonia chrysolampis*, Kert., Cat. Dipt., V, 2<sup>3</sup>; Brun., R. I. M., II, 439<sup>4</sup>;

*id.*, F. I. Dipt. Brachy. I, 182<sup>5</sup>.

### dives, Walker.

*Anthrax dives*, Wlk., List Dipt. B. M., II, 40 (1849)<sup>1</sup>; Wulp, Cat. Dipt. S.

Asia, 71<sup>2</sup>.

*Exoprosopa dives*, Kert. Cat. Dipt., V, 10<sup>3</sup>.

*Hyperalonia dives*, Brun., R. I. M., II, 439<sup>4</sup>; *id.*, F. I. Dipt. Brachy. I, 180.

### flaviventris, Doleschall.

*Anthrax flaviventris*, Dol., Nat. Tijd. Ned. Ind., XIV, 400, (1857)<sup>1</sup>;

*Exoprosopa flaviventris*, Wulp, Cat. Dipt. S. Asia, 70<sup>2</sup>; Kert., Cat. Dipt., V, 12<sup>3</sup>.

*Hyperalonia flaviventris*, O.-S., Berl. Ent. Zeit., XXVI, 112; Brun., R. I. M., II, 441<sup>4</sup>; *id.*, F. I. Dipt. Brachy. I, 183.

### oenomaus, Rondani.

*Hyperalonia oenomaus*, Rond., Ann. Mus. Gen., VII, 453 (1875)<sup>1</sup>; Brun., R. I.

M., II, 442<sup>2</sup>; *id.*, F. I. Dipt. Brachy.

I, 185<sup>3</sup>.

<sup>3</sup> Darjiling District.

<sup>3</sup> Sikkim.

<sup>3</sup> Mergui.

<sup>3</sup> Sadiya.

Shillong.

*Exoprosopa oenomaus*, O.-S., Berl. Ent. —————  
 Zeit., XXVI, 112; Wulp, Cat. Dipt. <sup>2, 3, 4</sup> Borneo.  
 S. Asia, 71<sup>4</sup>. <sup>2, 3, 4</sup> Philippines.

**semifuscata**, Brunetti.

*Hyperalonia semifuscata*, Brun., R. I. M., <sup>1, 2</sup> Mahableshwar.  
 VII, 466, t. 37, f. 4 (1912)<sup>1</sup>; id., F. I.  
 Dipt. Brachy., I, 188<sup>2</sup>.

**sphinx**, Fabricius.

*Bibio sphinx*, Fb. Mantissa, II, 329, 20 <sup>2, 3</sup> E. India.  
 (1787)<sup>1</sup>. <sup>4, 5</sup> Trivandrum.

*Anthrax sphinx*, Fb. Syst. Antl., 126;  
 Wd., Auss. Zweifl. Ins., I, 258; Mq.,  
 Dipt. Exot., II, L, 37. <sup>4, 5</sup> Bombay.  
<sup>5</sup> Orissa.

*Exoprosopa sphinx*, Wulp, Cat. Dipt. S.  
 Asia, 70<sup>2</sup>; Kert., Cat. Dipt., V, 22<sup>3</sup>. <sup>5</sup> Chapra.  
<sup>4, 5</sup> Coimbatore.

*Hyperalonia sphinx*, Brun., R. I. M., II,  
 440<sup>4</sup>; id., F. I. Dipt. Brachy., I, 187<sup>5</sup>;  
 Howl., Ind. Ins. L., 600 [parasite of  
*Sceliphron*]; Dutt, Pusa Ent. Mem.,  
 IV, 210, fig. 8 [pupa], fig. 9 [bionomics].

**suffusipennis**, Brunetti.

*Hyperalonia suffusipennis*, Brun., R. I. <sup>1, 2</sup> Purneah.  
 M., II, 462, t. 12, f. 15 (1909)<sup>1</sup>; id., <sup>2</sup> Naini Tal.  
 F. I. Dipt. Brachy I, 188, t. 3, f. 1<sup>2</sup>. <sup>2</sup> Dehra Dun.  
<sup>2</sup> Coorg.  
 Tranquebar.

**tantalus**, Fabricius.

*Anthrax tantalus*, Fb., Ent. Syst., IV, <sup>2, 3, 8</sup> Hindostan.  
 260 (1794)<sup>1</sup>; Wd. Auss. Zweifl. Ins., <sup>3, 5</sup> Tranquebar.  
 I, 255, 4; Mq., H. N. Dipt., I, 401; <sup>3, 5</sup> Sikkim.  
 Kirby., A. M. N. H., 1884, 458. <sup>3, 5</sup> Nepal.

*Exoprosopa tantalus*, Mq., Dipt. Exot., <sup>3, 5</sup> Assam.  
 I, L, 37; Kert., Cat. Pal. Dipt., II, <sup>3, 5</sup> Tennaserim.  
 169<sup>4</sup>; Meij., Tijd. v. Ent., L, 239; <sup>5</sup> Naini Tal District.  
 Wulp, Cat. Dipt. S. Asia, 70<sup>2</sup>. <sup>9</sup> Ceylon.

*Hyperalonia tantalus*, Rond., Ann. Mus. —————  
 Gen., VII, 453; Brun., R. I. M., II, <sup>2, 3, 5</sup> Java.

- 438<sup>3</sup>; *id.*, F. I. Dipt. Brachy., I, 181<sup>5</sup>; <sup>2, 3, 5</sup> Borneo..  
*Kert.*, Cat. Dipt., V, 4<sup>8</sup>; *Longstaff*, <sup>2, 3, 5</sup> Celebes.  
*Butterfly Hunting*, 372<sup>9</sup>. <sup>2, 3, 5, 8</sup> China.  
*Anthrax caeruleopennis*, Dol., Nat. Tijd. <sup>3, 5, 8</sup> Papua.  
 Ned. Ind., XIV, 400, t. 9, f. 2<sup>6</sup> (1857). <sup>3, 5</sup> Sumatra.  
*Exoprosopa caeruleopennis*, O.-S., Ann. <sup>3, 4, 5, 8</sup> Japan.  
 Mus. Gen., XVI, 433; Wulp, Cat. <sup>6, 7</sup> Amboina.  
 Dipt. S. Asia, 70<sup>7</sup>. <sup>8</sup> Malay Archipelago.  
*Hyperalonia hyx*, Big., nom. nud.

**tristis**, van der Wulp.

- Exoprosopa tristis*, Wulp, Tijd. v. Ent., <sup>4, 5</sup> Tenmalai (Travan-  
 XI, 107, t. 3, f. 11 (1868)<sup>1</sup>; *id.*, Cat. core).  
 Dipt. S. Asia, 71<sup>2</sup>; *Kert.*, Cat. Dipt., <sup>2, 3, 4</sup> Timor.  
 V, 23<sup>3</sup>.  
*Hyperalonia tristis*, Brun., R. I. M., II,  
 439<sup>4</sup>; *id.*, F. I. Dipt. Brachy. I, 180<sup>5</sup>.

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<i>Geron</i> , 2.	
 	<i>Velocia</i> = <i>Hyperalonia</i> .
<i>Hemipenthes</i> = <i>Anthrax</i> .	<i>Villa</i> = <i>Anthrax</i> .
<i>Heteralonia</i> = <i>Exoprosopa</i> .	<i>Volucella</i> , (Fb.)= <i>Usia</i> .
<i>Hyalanthrax</i> = <i>Anthrax</i> .	
<i>Hyperalonia</i> , 17.	<i>Xystropus</i> = <i>Systropus</i> .

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